



## Newsletter n.2

Dear ARBRE members,

you shall find in this second number a couple of announcements & reminders. Please, remember that the newsletter is filled in bimonthly, if you would like to advert job positions/training courses/workshops/conferences, feel free to send an e-mail at [info@arbre-biophysics.eu](mailto:info@arbre-biophysics.eu) and we shall place them in both the newsletter and the website.

The website <https://www.arbre-biophysics.eu> still needs your help to feed its content.

Hoping to seeing you all in Lyon at the next hybrid general assembly on June 15<sup>th</sup>!

With my best wishes,

Adriana Erica Miele  
President of ARBRE

Lyon, May 5<sup>th</sup> 2023

## Announcements

**BIFI-LACRIMA (University of Zaragoza)**, a member of the MOSBRI Consortium, will be running an **Advanced-Level Course on Protein Stabilization: Design, Experiments and Assessment (ProteSta)**.

The application form and all relevant information for this course can be found in this link: <https://www.mosbri.eu/training/advanced-level-schools/als1/>

Dates: July 3<sup>rd</sup> – 7<sup>th</sup>, 2023

Location: Institute BIFI, Zaragoza, Spain (BIFI-LACRIMA)

Full address: Institute BIFI, Edificio I+D, C/ Mariano Esquillor s/n, 50018, Zaragoza

**Number of participants: 20**

**Deadline** for application for this course is **May 31<sup>st</sup>, 2023**

Completed application forms, along with any supporting documentation, should be sent to [als1@mosbri.eu](mailto:als1@mosbri.eu)

This advanced-level course is aimed at biologists, immunologists, pharmacologists, biochemists, structural biologists, etc., who want to deepen their knowledge of the theoretical and practical aspects related to protein stability and the experimental and computational methodologies available to evaluate and improve the structural stability of proteins.

- Why assess/improve protein stability
- Principles of protein stability
- Physical formalism and unfolding models
- Experimental approaches: spectroscopy and calorimetry
- Data analysis
- Extrinsic and intrinsic factors affecting protein stability
- Computational tools for protein stability
- Computational design for stabilizing proteins
- Protein stability in life and disease

Discussions on practical/theoretical issues will take place along the course. Attendees will be able to contribute their own data to the discussions.

**Registration** to the course will be **free of charge**. In addition, the selected participants will enjoy:

- 5 nights of accommodation in Zaragoza (check-in Sunday July 2<sup>nd</sup>, check-out Friday July 7<sup>th</sup>)
- Daily lunches and coffees
- Up to 300 € in travel expenses (fully documented)





## GLP-ARBRE – Good Laboratory Practices in Molecular Biophysics: a hybrid ARBRE Symposium

<https://glp-arbre-biophysics.sciencesconf.org/>



Amphitheater Marie Curie – Campus Tech La Doua – 43 bd 11 Novembre 1918 – 69100 Villeurbanne – France

9h00 – 10h00: Onsite registration and posters setup

**10h-00 – 11h00: Sample quality control, benchmarking & standards – Chair: Josef Houser**

5' – Welcome, logistics and a couple of words on ARBRE – *Adriana E. Miele* (start streaming)

20' – Sandro Keller – University of Graz (AT)  European University Alliance

10' – selected oral 1

10' – selected oral 2

10' – Q&A

11h00-11h15 – coffee break

**11h15 – 12h35: Macromolecular interactions & tools – Chair: Paloma Fernandez-Varela**

20' – Antoine Royant – ESRF & IBS (F) – Engineering Fluorescent proteins

20' – Carlo Travaglini-Allocatelli – Sapienza University of Rome (I) – Folding & interactions of Fragile X syndrome protein

10' – selected oral 3

10' – selected oral 4

10' – Q&A

12h35 – 13h35 – Lunch (and poster)

**13h35 – 14h20: Technology Alert – Chair: Maggy Hologne**

15' – FidaBio

15' – Nicoya

15' – Malvern

**14h20 – 15h10: Lipids, vesicles & membrane proteins – Chair: Patrick England**

20' – Valeria Vetri – ARBRE & University of Palermo (I) – Sensing peptide-membrane interactions using quantitative fluorescence microscopy

10' – selected oral 5

10' – selected oral 6

10' – Q&A

15h10 – 15h20 – Speed Posters presentation

15h20 – 15h30 – Tea break

**15h30 – 17h15 – Poster session**

**15h30 – 17h15 – ARBRE General Assembly for members – Chair Stefan H. Knauer**

17h15 – 17h30 – Closing remarks (end streaming)



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ARBRE Deputy secretary **Arthur Sedivy** will be in Zurich, the birth place of the Creoptix® WAVEcore, on May 11<sup>th</sup> and 12<sup>th</sup> for the MalvernPanalytical Event “**GCI Community Meeting: Catch the WAVE of kinetics**”

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ARBRE MC member **André Matagne** is organising a training course at the Avans University of Applied Sciences (Breda, NL): “Protein Quality control” on May 23<sup>rd</sup>–26<sup>th</sup> <https://alsavans.nl/uk%20site/Courses/avans-training-2580.html>

This 4-days course has been developed for technicians, PhD students, and PhD who are using or are planning to use purified proteins in their lab experiments. After this course, participants should be familiar with the different techniques that can be applied on purified proteins and that will lead to more reliable and reproducible data from downstream applications.

Among the trainers there will be ARBRE Treasurer **Paloma Fernandez-Varela** and **MOSBRI** Instructor **Bertrand Raynal**.

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